INTERNATIONAL SEARCH REPORT

International application No. PCT/US02/21950

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) :G02B 6/32			
US CL 385/33, 147 According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S. 385/33, 34, 147			
0.00 0.			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields			
sc N. O. I. S.			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
USPTO APS EAST			
search terms: glass collimat\$, collimat\$ near coupler			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	ppropriate, of the relevant passages	Relevant to claim No.
Α	US 5,400,429 A (AMES et al) 21 March 1995 (21.03.1995), column 1-6		
	4, lines 21-68.		
A	US 6,246,813 B1 (ZHENG) 12 June 2001 (12.06.2001), column 2, 1-6		
	line 53 - column 3, line 45.		
		1	
Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "I" later document published after the international filling date or priority date and not in conflict with the application but clied to understand the general state of the art which is not considered the principle or theory anderlying the investor.			
to	be of particular relevance		
	rlier document published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone	claimed invention cannot be red to involve an inventive step
cit	enment which may throw doubts on priority claim(s) or which is ed to establish the publication date of another citation or other		
*O" doc	cial reason (as specified) sument referring to an oral disclosure, use, exhibition or other	"Y" document of particular relevance; the considered to involve an inventive step with one or more other such docum	when the document is combined
me	ans nment published prior to the international filing date but later	obvious to a person skilled in the art	
than the priority date claimed document member of the same patent family			
Date of the actual completion of the international search Date of mailing of the international search opert			arch oport
24 SEPTEMBER 2002		1 3 DEC 2002	
Name and mailing address of the ISA/US Author Commissioner of Patents and Trademarks		uthorized officer	
Box PCT Washington, D.C. 20231		JERRY RAHLL	
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